

Title (en)
BATTERY STATE MANAGEMENT SYSTEM AND METHOD

Title (de)
SYSTEM UND VERFAHREN ZUR VERWALTUNG EINES BATTERIEZUSTANDS

Title (fr)
SYSTÈME ET PROCÉDÉ DE GESTION D'ÉTAT DE BATTERIE

Publication
EP 4050357 A4 20230719 (EN)

Application
EP 21828444 A 20210525

Priority
• KR 20200075741 A 20200622
• KR 2021006520 W 20210525

Abstract (en)
[origin: EP4050357A1] A system for managing a state of a battery according to an embodiment of the present disclosure includes: a user terminal configured to set location information about a location at which a battery is stored and output the set location information; a battery information obtaining device connected to the battery and configured to obtain battery information including at least one of voltage, SOC, and SOH of the battery and output the obtained battery information; and a performance detecting device connected to the user terminal to receive the set location information, connected to the battery information obtaining device to receive the battery information, and configured to determine a target location at which the battery is stored based on the received location information, obtain environment information of the determined target location, set reference state information of at least one reference cell stored around the determined target location, and detect performance of the battery based on at least one of the received battery information, the obtained environment information, and the set reference state information.

IPC 8 full level
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CPC (source: EP KR US)
G01R 31/382 (2018.12 - KR US); **G01R 31/392** (2018.12 - EP KR US); **G01R 31/396** (2018.12 - KR US); **H01M 10/425** (2013.01 - EP US); **H01M 10/4285** (2013.01 - EP); **H01M 10/48** (2013.01 - EP); **H01M 10/486** (2013.01 - EP); **G01R 31/374** (2018.12 - EP); **H01M 10/0525** (2013.01 - EP); **H01M 50/105** (2021.01 - EP); **H01M 2010/4271** (2013.01 - EP KR US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
• [X] US 2020164763 A1 20200528 - HOLME TIM [US]
• [A] US 2017144560 A1 20170525 - PARK SANG DO [KR], et al
• [A] JP 2011027435 A 20110210 - YOKOGAWA ELECTRIC CORP
• See references of WO 2021261781A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4050357 A1 20220831; **EP 4050357 A4 20230719**; CN 114829962 A 20220729; JP 2023503135 A 20230126; JP 7395812 B2 20231212; KR 20210157662 A 20211229; US 2023236263 A1 20230727; WO 2021261781 A1 20211230

DOCDB simple family (application)
EP 21828444 A 20210525; CN 202180007162 A 20210525; JP 2022529886 A 20210525; KR 20200075741 A 20200622; KR 2021006520 W 20210525; US 202118008925 A 20210525